

PATENT

Practitioner's Docket No.

029340-029641

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Date: April 6,200

Assistant Commissioner for Patents Washington, D.C. 20231

REISSUE APPLICATION TRANSMITTAL

Transmitted herewith is the application for reissue of U.S.	
Utility Patent Plant Patent Design Patent No.	-
Inventor(s): Dillon etal Title: Partially Rigid - Partially Flexible Electro-optical Sersor For Enclosed are the following:	
1. Specification, claim(s) and drawing(s) (37 C.F.R. § 1.173) (a) page(s) of specification page(s) of claims page(s) of abstract NOTE: This must include the entire specification and claims of the patent, with the matter to be omitted reissue enclosed in square brackets. Any additions made by the reissue must be underlined, so the old and new specifications and claims may be readily compared. Claims should not be renumbered. The numbering of claims added by reissue should follow the number of the highest numbered pater claim. No new matter shall be introduced into the specification. (37 C.F.R. § 1.173).	at d.

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this Reissue Application Transmittal and the documents referred to as enclosed therein are
being deposited with the United States Postal Service on this date
I hereby certify that this Reissue Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date
addressed to the: Assistant Commissioner for Potente, Washington, D.C. 20221
Repecca A Cira II
KTIP((CA / I / IIIA) I A

(type or print name) of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Reissue Application Transmittal [17-1]—page 1 of 6)

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6.	Petition to proceed without assignee's assent Attached hereto is a "PETITION TO PROCEED WITH REISSUE APPLICATION WITHOUT ASSIGNEE'S ASSENT".							
								CATION
	A. 🗆	The fee payment is authorized in the attached:						
		☐ "RE	ISSUE APPLICATION TF	RAN	SMITTAL	." Form		
			MPLETION OF FILING RI	EQL	JIREMEN	ITS — R	EISSUE	APPLI-
	B. 🗆	Payment is	authorized below.					
7.	Information Di	sclosure Sta	atement			••	•	
	☐ Attache	d						,
			citation(s) is/are attached	d.				
8.	Priority—35 U.		•					
0.	·	•						
	☐ Priority of application Application No. 0 /, filed on							
	, in is claimed under 35 U.S.C. § 119.							
	☐ The certified copy has been filed in prior application Application No. 0 /							
		file	d on					
9.	Basic Filing Fe	e Calculation	on (37 C.F.R. § 1.16(h),	(i) a	nd (j))			
			···					
			CLAIMS AS FILED					
	Number Filed		Number Extra		Rate		Basic F	
	18		•			(37	C.F.R. 1 \$690.0	
Tota		18	- 20 (and also in					
Clai	-	. •	excess of total					
	C.F.R. § 1.16(j))	claims in patent)		\$18.00			
Clai	ependent ms	ے	 – (number of inde- pendent claims in 	•				
		. —	patent)	X	\$78.00			
			Filing fee Calculation			\$	600	

NOTE: Multiple dependent claims are treated as ordinary claims for fee purposes. 37 C.F.R. § 1.16().

(Reissue Application Transmittal [17-1]—page 3 of 6)

0. 3	Sma	Entity Status (Sapplicable)
NOTE		new statement is gired for the reissue, even if one has been filed in the ginal patent. 37 C.F.R. 1.27(a).
WARI	NING	"Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P. § 509.03, 6th ed., rev. 2, July 1996 (emphasis added).
		A statement that this filing is by a small entity is
		□ attached.
		Filing Fee Calculation (50% of above) \$ 345.00
NOTE	: If w	a statement is filed within 2 months of the date of timely payment of a fee, then the excess fee paid Il be refunded on request. 37 C.F.R. § 1.28(a). Effective April 1, 1984.
11.	Addi	tional Fee Payments
		Payment is being made for "PETITION TO PROCEED WITH REISSUE APPLICATION WITHOUT ASSIGNEE" (37 C.F.R. § 1.17(h))
2.	Tota	Fees Due
		Filing Fee \$ 345.00
		Petition fee \$
		Total Fees Due \$ 5 7.85
13.	Met	nod Of Payment of Fees
	V	Enclosed is a check in the amount of \$ 345.00
		Charge Account No in the amount of \$ A duplicate of this request is attached.
NOTI	E: F	ses should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R.

(Reissue Application Transmittal [17-1]—page 4 of 6)

14. Authorization To Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No.

☑ 37 C.F.R. § 1.16(a), (f) or (g) (filing fees)

2 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

☑ 37 C.F.R. § 1.17(a)(1)–(5) (extension fees pursuant to § 1.136(a)).

☑ 37 C.F.R. § 1.17 (application processing fees)

NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

NOTE: "Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: See 37 C.F.R. § 1.28.

15. Additional Enclosures

Reg. No.: 29,634

Tel. No.: (512) 343-6116

Customer No.:

(type or print name of practitioner)

7600 B N. Cop. to STX Su.

(Reissue Application Transmittal [17-1]—page 6 of 6)

Docket No. 29641

asasa, anta

CERTIFICATE OF TITLE UNDER 37 CFR 3.73(b)

Applicant: DIL	LON ET AL.
Patent No.: <u>5,89</u>	1,021 Issued: <u>April 6, 1999</u>
	FIALLY RIGID-PARTIALLY FLEXIBLE ELECTRO-OPTICAL SENSOR FOR FINGERTIP
TRAI	<u>NSILLUMINATION</u>
	LDINGS INC. , a Corporation
(Name of As	signee) (Type of Assignee, e.g., corporation, partnership, university, government agency,etc.)
certifies that it i	s the assignee of the entire right, title and interest in the patent application identified above by virtue of either:
	nment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent
and Trademark Reel 9234	Office at, Frame_0400, or which a copy thereof is attached.
 OR	••
B. [] A chain o	f title from the inventor(s), of the patent application identified above, to the current assignee as shown below:
1.	From: To: The document was recorded in the Patent and Trademark Office at
	Reel, Frame, or for which a copy thereof is attached.
2.	
۷.	From: To: To: The document was recorded in the Patent and Trademark Office at
	Reel, Frame, or for which a copy thereof is attached.
3.	From:, To: The document was recorded in the Patent and Trademark Office at
	The document was recorded in the Patent and Trademark Office at Reel Frame, or for which a copy thereof is attached.
J Additional de	ocuments in the chain of title are listed on a supplemental sheet.
[] Copies of ass	signments or other documents in the chain of title are attached.
_	d has reviewed all the documents in the chain of title of the patent application identified above and, to the best of nowledge and belief, title is in the assignee identified above.
	d (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.
-	
	that all statements made herein of my own knowledge are true, and that all statements made on information and belief be true; and further, that these statements are made with the knowledge that willful false statements, and the like so
	nable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful
false statements	may jeopardize the validity of the application or any patent issuing thereon.
Λ.	516 2-01 Add
Date:	(Signature) Reg. No. 29,634
•	
	Andrew J. Dillon Typed or printed name
	Counsel
	Title

Received in the U.S.P.T.O.
In re Application of:
DILLON ET AL.
Partially Rigid-Partially Flexible ElectroOptical Sensor for Fingertip Transillumination
Serial No. 09/089,523; Filed 6/3/98
ENCLOSED-HEREWITH:

- 1. Request for Corrected Patent Document
- 2. Amendment, Petition...in Declaration (copy)

EPIC MEDICAL EQUIPMENT SERVICES, INC. Our File No. 0293AD-29641 Mailed: April 14, 1999

AJD/vf

Received in the U.S.P.T.O.
In re Application of:
DILLON ET AL.
Partially Rigid-Partially Flexible ElectroOptical Sensor for Fingertip Transillumination
Serial No. 09/089,523; Filed 6/3/98
ENCLOSED HEREWITH:

APR 2 9 1999

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- 2. Amendment, Petition...in Declaration (copy)

EPIC MEDICAL EQUIPMENT SERVICES, INC. Our File No. 0293AD-29641

Mailed: April 14, 1999

AJD/vf

Publishing Division APR 1 9 1995

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U. S. Patent No. 5,891,021 \$ App. No.: 89,523

Granted: APR. 6, 1999 \$ \$

For: PARTIALLY RIGID-PARTIALLY \$ FLEXIBLE ELECTRO-OPTICAL \$ SENSOR FOR FINGERTIP \$ TRANSILLUMINATION \$

REQUEST FOR CORRECTED PATENT DOCUMENT

Assistant Commissioner for Patents Washington, D.C. 20231

ATTN: Publishing Division

Sir:

Applicant submits the original Patent Grant and respectfully requests a correction be made to the third inventor's name: **Todd Johnson Daniel**, as previously submitted by Petition to the USPTO and attached hereto.

Respectfully submitted,

Andrew J. Dillon

Registration No. 29,634

FELSMAN, BRADLEY, VADEN, GUNTER & DILLON, LLP

Suite 350, Lakewood on the Park

7600B No. Capital of Texas Highway

Austin, Texas 78731

512-343-6116

ATTORNEY FOR APPLICANT

CERTIFICATE OF MAILING - 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D. C. 20231, on April 14, 1999.

Signature Stup

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United United States of America



The Commissioner of Patents and Trademarks



Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

2. Toda Tjohni

Acting Commissioner of Patents and Trademarks

Thomas & Hawking Je



United States Patent [19]

Dillon et al.

Patent Number:

5,891,021

Date of Patent: [45]

Apr. 6, 1999

[54]	ELECTRO	LY RIGID-PARTIALLY FLEXIBLE D-OPTICAL SENSOR FOR IP TRANSILLUMINATION
[75]	Inventors:	Andrew Joseph Dillon, Austin; Jeffrey Albert Secunda, Dallas; Todd Johnson, Frisco, all of Tex.
[73]	Assignee:	Perdue Holdings, Inc., Dallas, Tex.
[21]	Appl. No.:	89,523
[22]	Filed:	Jun. 3, 1998
	U.S. Cl	A61B 5/00
[56]		References Cited

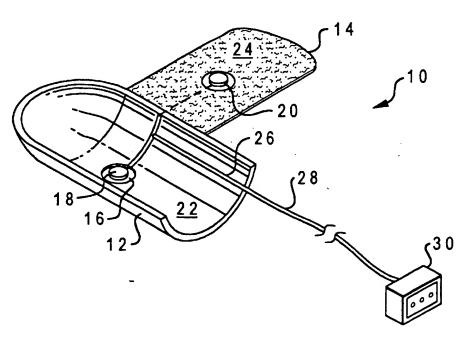
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5,429,129	7/1995	Lovejoy et al	128/633
5,676,139	10/1997	Goldberger et al	128/633

Primary Examiner-Cary E. O'Connor Assistant Examiner-Eric F. Winakur Attorney, Agent, or Firm-Andrew J. Dillon

A sensor is provided for transillumination of a bloodprofused portion of a human fingertip. The sensor includes an opaque, semi-cylindrical substantially rigid cradle member having a photosensor mounted to a concave surface thereof such that ambient light cannot penetrate the cradle member and induce erroneous readings. A flexible planar web-like support structure is attached at one end thereof to the cradle member and includes a light source mounted within the web thereof. A repositionable adhesive coating on the concave surface of the cradle member holds the fleshy portion of a human fingertip in conformance therewith, and when the flexible planar web-like support structure is wrapped around a fingertip within the cradle member. the light source overlies the photosensor for transillumination of the fingertip.

ABSTRACT

18 Claims, 2 Drawing Sheets



[56]

U.S. PATENT DOCUMENTS

8/1971 8/1971 11/1973 4/1974 3/1977 5/1978 12/1981 9/1982	Richter 250/239 Gordy 128/2.06 Howell et al. 128/2.05 Smart et al. 128/2.05 Orr et al. 128/2.05 Kresse et al. 128/2.05 Pinder 128/2.05 Reissmueller et al. 128/690 Striese 128/640 Cartmell 128/640
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	8/1971 8/1971 11/1973 4/1974 3/1977 5/1978 12/1981 9/1982 2/1983